## Tao Zhao

## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	3D DEM investigation of granular column collapse: Evaluation of debris motion and its destructive power. Engineering Geology, 2015, 186, 3-16.	6.3	157
2	Experimental and numerical study on the fracture process zone and fracture toughness determination for ISRM-suggested semi-circular bend rock specimen. Engineering Fracture Mechanics, 2016, 154, 43-56.	4.3	137
3	An experimental and theoretical assessment of semi-circular bend specimens with chevron and straight-through notches for mode I fracture toughness testing of rocks. International Journal of Rock Mechanics and Minings Sciences, 2017, 99, 28-38.	5.8	127
4	Numerical Investigation of Dynamic Rock Fracture Toughness Determination Using a Semi-Circular Bend Specimen in Split Hopkinson Pressure Bar Testing. Rock Mechanics and Rock Engineering, 2016, 49, 731-745.	5.4	123
5	Quantifying the impact of dry debris flow against a rigid barrier by DEM analyses. Engineering Geology, 2018, 241, 86-96.	6.3	120
6	Loading-rate-dependent progressive fracturing of cracked chevron-notched Brazilian disc specimens in split Hopkinson pressure bar tests. International Journal of Rock Mechanics and Minings Sciences, 2016, 88, 49-60.	5.8	110
7	Fracture prediction of rocks under mode I and mode II loading using the generalized maximum tangential strain criterion. Engineering Fracture Mechanics, 2017, 186, 21-38.	4.3	104
8	Stress intensity factors and fracture process zones of ISRM-suggested chevron notched specimens for mode I fracture toughness testing of rocks. Engineering Fracture Mechanics, 2016, 168, 174-189.	4.3	98
9	Rockslide and Impulse Wave Modelling in the Vajont Reservoir by DEM-CFD Analyses. Rock Mechanics and Rock Engineering, 2016, 49, 2437-2456.	5.4	81
10	Investigation of rock fragmentation during rockfalls and rock avalanches via 3â€D discrete element analyses. Journal of Geophysical Research F: Earth Surface, 2017, 122, 678-695.	2.8	81
11	Evolution of Particle Breakage for Calcareous Sands during Ring Shear Tests. International Journal of Geomechanics, 2018, 18, .	2.7	80
12	Coupled DEM-CFD investigation on the formation of landslide dams in narrow rivers. Landslides, 2017, 14, 189-201.	5.4	79
13	Investigation of granular batch sedimentation via DEM–CFD coupling. Granular Matter, 2014, 16, 921-932.	2.2	74
14	A novel chevron notched short rod bend method for measuring the mode I fracture toughness of rocks. Engineering Fracture Mechanics, 2018, 190, 1-15.	4.3	72
15	Numerical Investigation of the Dynamic Properties of Intermittent Jointed Rock Models Subjected to Cyclic Uniaxial Compression. Rock Mechanics and Rock Engineering, 2017, 50, 89-112.	5.4	67
16	Analysis of impact-induced rock fragmentation using a discrete element approach. International Journal of Rock Mechanics and Minings Sciences, 2017, 98, 33-38.	5.8	66
17	Fracture Toughness Determination of Cracked Chevron Notched Brazilian Disc Rock Specimen via Griffith Energy Criterion Incorporating Realistic Fracture Profiles. Rock Mechanics and Rock Engineering, 2016, 49, 3083-3093.	5.4	62
18	Numerical investigation of the progressive fracture mechanisms of four ISRM-suggested specimens for determining the mode I fracture toughness of rocks. Computers and Geotechnics, 2015, 69, 424-441.	4.7	61

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19	Effects of strain rate on the mechanical and fracturing behaviors of rock-like specimens containing two unparallel fissures under uniaxial compression. Soil Dynamics and Earthquake Engineering, 2018, 110, 195-211.	3.8	60
20	DEM analyses of rock block shape effect on the response of rockfall impact against a soil buffering layer. Engineering Geology, 2019, 249, 60-70.	6.3	60
21	Experimental and numerical investigation on the tensile fatigue properties of rocks using the cyclic flattened Brazilian disc method. Soil Dynamics and Earthquake Engineering, 2018, 105, 68-82.	3.8	59
22	Experimental and numerical investigation of cracked chevron notched Brazilian disc specimen for fracture toughness testing of rock. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 197-211.	3.4	58
23	Quantifying the Morphology of Calcareous Sands by Dynamic Image Analysis. International Journal of Geomechanics, 2020, 20, .	2.7	57
24	A composite particle model for non-spherical particles in DEM simulations. Granular Matter, 2015, 17, 763-774.	2.2	56
25	An experimental and theoretical comparison of CCNBD and CCNSCB specimens for determining mode I fracture toughness of rocks. Fatigue and Fracture of Engineering Materials and Structures, 2018, 41, 1002-1018.	3.4	45
26	Dynamic Fragmentation of Jointed Rock Blocks During Rockslideâ€Avalanches: Insights From Discrete Element Analyses. Journal of Geophysical Research: Solid Earth, 2018, 123, 3250-3269.	3.4	44
27	Comprehensive evaluation of excavation-damaged zones in the deep underground caverns of the Houziyan hydropower station, Southwest China. Bulletin of Engineering Geology and the Environment, 2017, 76, 275-293.	3.5	42
28	Influence of Particle Breakage on Drained Shear Strength of Calcareous Sands. International Journal of Geomechanics, 2021, 21, .	2.7	40
29	Experimental study on the regulation function of slit dam against debris flows. Landslides, 2019, 16, 75-90.	5.4	37
30	Analysis of sand – woven geotextile interface shear behavior using discrete element method (DEM). Canadian Geotechnical Journal, 2020, 57, 433-447.	2.8	37
31	Numerical Observation of Three-Dimensional Wing Cracking of Cracked Chevron Notched Brazilian Disc Rock Specimen Subjected to Mixed Mode Loading. Rock Mechanics and Rock Engineering, 2016, 49, 79-96.	5.4	33
32	On the Dynamic Fragmentation and Lubrication of Coseismic Landslides. Journal of Geophysical Research: Solid Earth, 2018, 123, 9914-9932.	3.4	31
33	Micro-mechanical analysis of geomembrane-sand interactions using DEM. Computers and Geotechnics, 2018, 94, 58-71.	4.7	30
34	Particle Size Segregation in Granular Mass Flows With Different Ambient Fluids. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019536.	3.4	26
35	Experimental Evaluation of the Shear Behavior of Fiber-Reinforced Calcareous Sands. International Journal of Geomechanics, 2018, 18, 04018175.	2.7	25
36	Viscoelastic solutions for stresses and displacements around non-circular tunnels sequentially excavated at great depths. Acta Geotechnica, 2019, 14, 111-139.	5.7	24

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37	Discrete element analysis of dry granular flow impact on slit dams. Landslides, 2021, 18, 1143-1152.	5.4	24
38	Discrete Element Analyses of a Realistic-shaped Rock Block Impacting Against a Soil Buffering Layer. Rock Mechanics and Rock Engineering, 2020, 53, 3807-3822.	5.4	22
39	A novel random discrete element analysis of rock fragmentation. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1386-1395.	3.3	21
40	Experimental and numerical study on the fragmentation mechanism of a single calcareous sand particle under normal compression. Bulletin of Engineering Geology and the Environment, 2021, 80, 2875-2888.	3.5	21
41	Coupled DEM-CFD Analyses of Landslide-Induced Debris Flows. , 2017, , .		20
42	AE energy evolution during CJB fracture affected by rock heterogeneity and column irregularity under lateral pressure. Geomatics, Natural Hazards and Risk, 2022, 13, 877-907.	4.3	20
43	Cyclic flattened Brazilian disc tests for measuring the tensile fatigue properties of brittle rocks. Review of Scientific Instruments, 2017, 88, 083902.	1.3	19
44	Microseismicity and its time–frequency characteristics of the left bank slope at the Jinping first-stage hydropower station during reservoir impoundment. Environmental Earth Sciences, 2016, 75, 1.	2.7	18
45	Numerical study on size effect and anisotropy of columnar jointed basalts under uniaxial compression. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	3.5	18
46	Influence of particle size on the buffering efficiency of soil cushion layer against rockfall impact. Natural Hazards, 2021, 108, 1469-1488.	3.4	15
47	Discrete element simulation of dynamic semi-circular bend flexure tests of rocks using split Hopkinson pressure bar. Arabian Journal of Geosciences, 2016, 9, 1.	1.3	12
48	Effect of particle breakage on the shear strength of calcareous sands. Marine Geophysical Researches, 2021, 42, 1.	1.2	11
49	Influence of two unparallel fissures on the mechanical behaviours of rock-like specimens subjected to uniaxial compression. European Journal of Environmental and Civil Engineering, 2020, 24, 1643-1663.	2.1	10
50	Solutions for lined circular tunnels sequentially constructed in rheological rock subjected to non-hydrostatic initial stresses. European Journal of Environmental and Civil Engineering, 2022, 26, 1834-1866.	2.1	10
51	Dynamics of loose granular flow and its subsequent deposition in a narrow mountainous river. Journal of Mountain Science, 2019, 16, 1367-1380.	2.0	8
52	Influence of Inter-Particle Friction and Damping on the Dynamics of Spherical Projectile Impacting Onto a Soil Bed. Frontiers in Earth Science, 2022, 10, .	1.8	4
53	Experimental Investigations on the Spillway Section Shape of the Breaching Process of Landslide Dams. International Journal of Geomechanics, 2022, 22, .	2.7	4
54	Numerical Simulation of the Collapse of Granular Columns Using DEM. Special Publication - Royal Society of Chemistry, 2012, , 133-140.	0.0	3

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55	Slope erosion induced by surges of debris flow: insights from field experiments. Landslides, 2022, 19, 2367-2377.	5.4	2
56	Generation of Complex Slope Geometries by DEM for Modeling Landslides: A Case Study of Tangjiashan Landslide. , 2018, , 11-19.		1
57	DEM modelling of cone penetration tests in lunar soil. Granular Matter, 2022, 24, 1.	2.2	1
58	Coupled DEM-CFD Investigation of Granular Transport in a Fluid Channel. IOP Conference Series: Earth and Environmental Science, 2015, 26, 012016.	0.3	0
59	Research on a Calculation Method and Three-Dimensional Simulation of a High-Filled Embankment Rheological Settlement. , 2016, , .		0
60	Effect of Particle Size Segregation in Debris Flow Deposition: A Preliminary Study. , 2018, , 73-80.		0
61	Reduction of Landslide Shear Resistance by Gravel Fragmentation: Insights from DEM Modelling. , 2018, , 34-41.		0
62	Discrete Element Analyses of Earthquake-Induced Landslide. Springer Series in Geomechanics and Geoengineering, 2018, , 1574-1578.	0.1	0
63	Testing DEM Approaches for Rockfall Impact Modeling. , 2017, , .		0
64	Investigation of Dry Debris Flow Impact Against a Rigid Barrier via a Discrete Element Approach. , 2018, , 20-27.		0